ABSTRACT OF THE DISCLOSURE

A method of recognizing an object based on pattern matching using a gray-scale normalized correlation method includes storing a reference image including a foreground and a background each having a predetermined value of density distribution; inputting an image of the object which includes a foreground and a background each having a predetermined average value of density distribution; storing a function for giving the predetermined values of density distribution of the reference image equal to the predetermined average values of density distribution of the input image, respectively; and obtaining a maximum normalized correlation coefficient between the reference image and the input image using the function.

09/609,849 07/05/00